

RAW SEQUENCE LISTING

— The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/534,171
Source: TFWP
Date Processed by STIC: 08/04/2006

ENTERED



IFWP

RAW SEQUENCE LISTING DATE: 08/04/2006
 PATENT APPLICATION: US/10/534,171 TIME: 12:55:59

Input Set : E:\3912.1000-000 seq list.txt
 Output Set: N:\CRF4\08042006\J534171.raw

```

4 <110> APPLICANT: Porro, Danilo
5     Branduardi, Paola
6     Valli, Minoska
7     Alberghina, Lilia
9 <120> TITLE OF INVENTION: Process for Expression and Secretion of
10    Proteins by the Non-Conventional Yeast Zygosaccharomyces
11    Bailii
13 <130> FILE REFERENCE: 3912.1000-000
15 <140> CURRENT APPLICATION NUMBER: 10/534,171
16 <141> CURRENT FILING DATE: 2005-05-06
18 <150> PRIOR APPLICATION NUMBER: PCT/EP2003/012377
19 <151> PRIOR FILING DATE: 2003-11-06
21 <150> PRIOR APPLICATION NUMBER: 102 52 245.6
22 <151> PRIOR FILING DATE: 2002-11-07
24 <160> NUMBER OF SEQ ID NOS: 95
26 <170> SOFTWARE: FastSEQ for Windows Version 4.0
28 <210> SEQ ID NO: 1
29 <211> LENGTH: 57
30 <212> TYPE: DNA
31 <213> ORGANISM: Saccharomyces cerevisiae
33 <400> SEQUENCE: 1
34 cgacagtaaa ttttgcgaa tttaatagct tctactgaaa aacagtggac catgtga      57
36 <210> SEQ ID NO: 2
37 <211> LENGTH: 19
38 <212> TYPE: PRT
39 <213> ORGANISM: Saccharomyces cerevisiae
41 <400> SEQUENCE: 2
42 Met Arg Phe Pro Ser Ile Phe Thr Ala Val Leu Phe Ala Ala Ser Ser
43      1           5           10          15
44 Ala Leu Ala
48 <210> SEQ ID NO: 3
49 <211> LENGTH: 255
50 <212> TYPE: DNA
51 <213> ORGANISM: Saccharomyces cerevisiae
53 <400> SEQUENCE: 3
54 cgacagtaaa ttttgcgaa tttaatagct tctactgaaa aacagtggac catgtaaaaa 60
55 gatgcatctc atttatcaaa cacataatat tcaagtggc cttacttcaa ttgtattgaa 120
56 gtgcaagaaa accaaaaaagc aacaacaggt tttggataag tacatatata agagggcctt 180
57 ttgttccat caaaaatgtt actgttctta cgattcattt acgattcaag aatagttcaa 240
58 acaagaagat tacaa                                         255
60 <210> SEQ ID NO: 4
61 <211> LENGTH: 85
62 <212> TYPE: PRT

```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/534,171

DATE: 08/04/2006
TIME: 12:55:59

Input Set : E:\3912.1000-000 seq list.txt
Output Set: N:\CRF4\08042006\J534171.raw

63 <213> ORGANISM: *Saccharomyces cerevisiae*
65 <400> SEQUENCE: 4
66 Met Arg Phe Pro Ser Ile Phe Thr Ala Val Leu Phe Ala Ala Ser Ser
67 1 5 10 15
68 Ala Leu Ala Ala Pro Val Asn Thr Thr Glu Asp Glu Thr Ala Gln
69 20 25 30
70 Ile Pro Ala Glu Ala Val Ile Gly Tyr Leu Asp Leu Glu Gly Asp Phe
71 35 40 45
72 Asp Val Ala Val Leu Pro Phe Ser Asn Ser Thr Asn Asn Gly Leu Leu
73 50 55 60
74 Phe Ile Asn Thr Thr Ile Ala Ser Ile Ala Ala Lys Glu Glu Gly Val
75 65 70 75 80
76 Ser Leu Asp Lys Arg
77 85
80 <210> SEQ ID NO: 5
81 <211> LENGTH: 63
82 <212> TYPE: DNA
83 <213> ORGANISM: *Aspergillus niger*
85 <400> SEQUENCE: 5
86 atgatggtcg cgtggtggtc tctatttctg tacggccttc aggtcgccgc acctgctttg 60
87 gct 63
89 <210> SEQ ID NO: 6
90 <211> LENGTH: 21
91 <212> TYPE: PRT
92 <213> ORGANISM: *Aspergillus niger*
94 <400> SEQUENCE: 6
95 Met Met Val Ala Trp Trp Ser Leu Phe Leu Tyr Gly Leu Gln Val Ala
96 1 5 10 15
97 Ala Pro Ala Leu Ala
98 20
101 <210> SEQ ID NO: 7
102 <211> LENGTH: 93
103 <212> TYPE: DNA
104 <213> ORGANISM: *Bacillus sp.*
106 <400> SEQUENCE: 7
107 atgaaaaca cagcgaaaaa ctccatctgg cagagggtgc gccacagcgc cattgcctta 60
108 tccgctctca gtttatcctt tggcctgcag gcc 93
110 <210> SEQ ID NO: 8
111 <211> LENGTH: 31
112 <212> TYPE: PRT
113 <213> ORGANISM: *Bacillus sp.*
115 <400> SEQUENCE: 8
116 Met Gln Asn Thr Ala Lys Asn Ser Ile Trp Gln Arg Val Arg His Ser
117 1 5 10 15
118 Ala Ile Ala Leu Ser Ala Leu Ser Leu Ser Phe Gly Leu Gln Ala
119 20 25 30
122 <210> SEQ ID NO: 9
123 <211> LENGTH: 63
124 <212> TYPE: DNA

RAW SEQUENCE LISTING DATE: 08/04/2006
 PATENT APPLICATION: US/10/534,171 TIME: 12:55:59

Input Set : E:\3912.1000-000 seq list.txt
 Output Set: N:\CRF4\08042006\J534171.raw

125 <213> ORGANISM: Aspergillus oryzae
 127 <400> SEQUENCE: 9
 128 atgcagtcca tcaagcgtac cttgctcctc ctcggagcta tccttccgc ggtcctcggt 60
 129 gcc 63
 131 <210> SEQ ID NO: 10
 132 <211> LENGTH: 21
 133 <212> TYPE: PRT
 134 <213> ORGANISM: Aspergillus oryzae
 136 <400> SEQUENCE: 10
 137 Met Gln Ser Ile Lys Arg Thr Leu Leu Leu Gly Ala Ile Leu Pro
 138 1 5 10 15
 139 Ala Val Leu Gly Ala
 140 20
 143 <210> SEQ ID NO: 11
 144 <211> LENGTH: 75
 145 <212> TYPE: DNA
 146 <213> ORGANISM: Bacillus amyloliquefaciens
 148 <400> SEQUENCE: 11
 149 atgaaacgag tggtaat tcttgtcacc ggattgtta tgagttgtg tgggatcact 60
 150 tctagtgtt cggct 75
 152 <210> SEQ ID NO: 12
 153 <211> LENGTH: 25
 154 <212> TYPE: PRT
 155 <213> ORGANISM: Bacillus amyloliquefaciens
 157 <400> SEQUENCE: 12
 158 Met Lys Arg Val Leu Leu Ile Leu Val Thr Gly Leu Phe Met Ser Leu
 159 1 5 10 15
 160 Cys Gly Ile Thr Ser Ser Val Ser Ala
 161 20 25
 164 <210> SEQ ID NO: 13
 165 <211> LENGTH: 51
 166 <212> TYPE: DNA
 167 <213> ORGANISM: Saccharomyces fibuligera
 169 <400> SEQUENCE: 13
 170 atgttcatgtatgtacatgttttttgcactaggcc ttgtgttgc t 51
 172 <210> SEQ ID NO: 14
 173 <211> LENGTH: 17
 174 <212> TYPE: PRT
 175 <213> ORGANISM: Saccharomyces fibuligera
 177 <400> SEQUENCE: 14
 178 Met Leu Met Ile Val Gln Leu Leu Val Phe Ala Leu Gly Leu Ala Val
 179 1 5 10 15
 180 Ala
 184 <210> SEQ ID NO: 15
 185 <211> LENGTH: 51
 186 <212> TYPE: DNA
 187 <213> ORGANISM: Saccharomyces fibuligera
 189 <400> SEQUENCE: 15
 190 atgttcatgtatgtacatgttttttgcactaggcc ttgtgttgc t 51

RAW SEQUENCE LISTING DATE: 08/04/2006
 PATENT APPLICATION: US/10/534,171 TIME: 12:55:59

Input Set : E:\3912.1000-000 seq list.txt
 Output Set: N:\CRF4\08042006\J534171.raw

192 <210> SEQ ID NO: 16
 193 <211> LENGTH: 17
 194 <212> TYPE: PRT
 195 <213> ORGANISM: *Saccharomyces fibuligera*
 197 <400> SEQUENCE: 16
 198 Met Leu Leu Ile Leu Glu Leu Leu Val Leu Ile Ile Gly Leu Gly Val
 199 1 5 10 15
 200 Ala
 204 <210> SEQ ID NO: 17
 205 <211> LENGTH: 66
 206 <212> TYPE: DNA
 207 <213> ORGANISM: *Hypocrea pecorina*
 209 <400> SEQUENCE: 17
 210 atggcgccct cagttacact gccgttgacc acggccatcc tggccattgc cgggctcg 60
 211 gccc
 213 <210> SEQ ID NO: 18
 214 <211> LENGTH: 22
 215 <212> TYPE: PRT
 216 <213> ORGANISM: *Hypocrea pecorina*
 218 <400> SEQUENCE: 18
 219 Met Ala Pro Ser Val Thr Leu Pro Leu Thr Thr Ala Ile Leu Ala Ile
 220 1 5 10 15
 221 Ala Arg Leu Val Ala Ala
 222 20
 225 <210> SEQ ID NO: 19
 226 <211> LENGTH: 63
 227 <212> TYPE: DNA
 228 <213> ORGANISM: *Hypocrea pecorina*
 230 <400> SEQUENCE: 19
 231 atgaacaagt ccgtggctcc attgctgctt gcagcgtcca tactatatgg cggcgccg 60
 232 gca 63
 234 <210> SEQ ID NO: 20
 235 <211> LENGTH: 21
 236 <212> TYPE: PRT
 237 <213> ORGANISM: *Hypocrea pecorina*
 239 <400> SEQUENCE: 20
 240 Met Asn Lys Ser Val Ala Pro Leu Leu Ala Ala Ser Ile Leu Tyr
 241 1 5 10 15
 242 Gly Gly Ala Val Ala
 243 20
 246 <210> SEQ ID NO: 21
 247 <211> LENGTH: 48
 248 <212> TYPE: DNA
 249 <213> ORGANISM: *Arxula adeninivorans*
 251 <400> SEQUENCE: 21
 252 atgcgtcagt ttcttagcact tgctgctgct gcttccatag cggtggca 48
 254 <210> SEQ ID NO: 22
 255 <211> LENGTH: 18
 256 <212> TYPE: PRT

RAW SEQUENCE LISTING DATE: 08/04/2006
PATENT APPLICATION: US/10/534,171 TIME: 12:55:59

Input Set : E:\3912.1000-000 seq list.txt
Output Set: N:\CRF4\08042006\J534171.raw

257 <213> ORGANISM: Arxula adeninivorans
259 <400> SEQUENCE: 22
260 Met Arg Gln Phe Leu Ala Leu Ala Ala Ala Ser Ile Ala Val Ala
261 1 5 10 15
262 Asp Ser
266 <210> SEQ ID NO: 23
267 <211> LENGTH: 57
268 <212> TYPE: DNA
269 <213> ORGANISM: Homo sapiens
271 <400> SEQUENCE: 23
272 atgcagcgac tatgtgtgta tggctgatc tttgcactgg ctctggccgc cttctct 57
274 <210> SEQ ID NO: 24
275 <211> LENGTH: 19
276 <212> TYPE: PRT
277 <213> ORGANISM: Homo sapiens
279 <400> SEQUENCE: 24
280 Met Gln Arg Leu Cys Val Tyr Val Leu Ile Phe Ala Leu Ala Leu Ala
281 1 5 10 15
282 Ala Phe Ser
286 <210> SEQ ID NO: 25
287 <211> LENGTH: 75
288 <212> TYPE: DNA
289 <213> ORGANISM: Rhizopus oryzae
291 <400> SEQUENCE: 25
292 atgcaactgt tcaatttgcc attgaaagtt tcatttttc tcgtcctctc ttactttct 60
293 ttgctcggtt ctgct 75
295 <210> SEQ ID NO: 26
296 <211> LENGTH: 25
297 <212> TYPE: PRT
298 <213> ORGANISM: Rhizopus oryzae
300 <400> SEQUENCE: 26
301 Met Gln Leu Phe Asn Leu Pro Leu Lys Val Ser Phe Phe Leu Val Leu
302 1 5 10 15
303 Ser Tyr Phe Ser Leu Leu Val Ser Ala
304 20 25
307 <210> SEQ ID NO: 27
308 <211> LENGTH: 48
309 <212> TYPE: DNA
310 <213> ORGANISM: Aspergillus niger
312 <400> SEQUENCE: 27
313 atgcagactc tccttgtag ctgcgttggt gtctccctcg ctgcggcc 48
315 <210> SEQ ID NO: 28
316 <211> LENGTH: 16
317 <212> TYPE: PRT
318 <213> ORGANISM: Aspergillus niger
320 <400> SEQUENCE: 28
321 Met Gln Thr Leu Leu Val Ser Ser Leu Val Val Ser Leu Ala Ala Ala
322 1 5 10 15
325 <210> SEQ ID NO: 29

VERIFICATION SUMMARY DATE: 08/04/2006
PATENT APPLICATION: US/10/534,171 TIME: 12:56:00

Input Set : E:\3912.1000-000 seq list.txt
Output Set: N:\CRF4\08042006\J534171.raw

L:1286 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:78
L:1309 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:79